

Abstract

A computer-implemented system for managing a collection of Web documents with dependency relationships which are defined among designated elements of those Web documents. The system automatically and consistently propagates updates that are introduced in such elements to all elements that directly or indirectly depend on those updated elements. The user interface of the system is realized as a collection of port complexes which are networked over the Web so that a collection of human or computer-based tasks which are distributed geographically and/or organizationally can be coordinated effectively through the dissemination of the right information at the right time in the Web environment.